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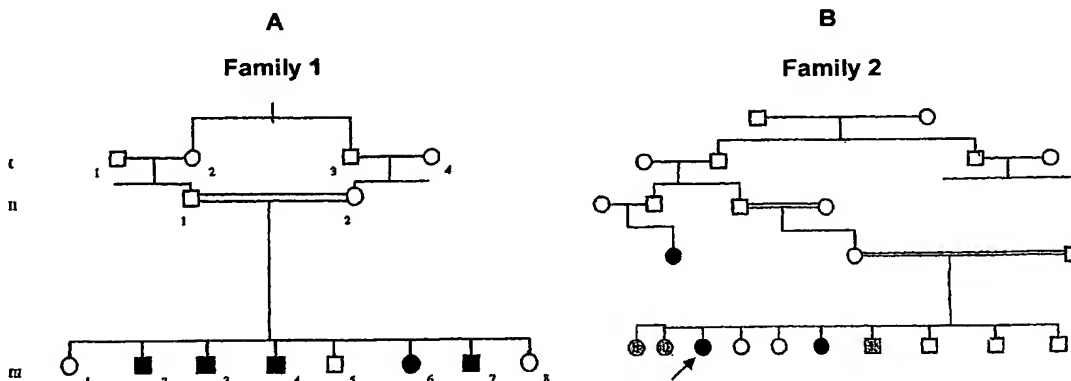
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(54) Title: **GPR54 RECEPTOR AGONIST AND ANTAGONIST USEFUL FOR THE TREATMENT OF GONADOTROPIN RELATED DISEASES**



(57) Abstract: The invention provides an agonist or antagonist of the GPR54 receptor for its use for treating a gonadotropin related disorder; a ligand of the GPR54 receptor for its use for diagnosing a subject's gonadotropin abnormality; a method for screening a compound that affect the gonadotropic axis comprising the step of assaying the compound in the presence of a GPR54 receptor and novel proteins useful in the above.



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